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CORRIGENDA

Page	Column, Box & Line	Incorrect	Correct
37 ,	Right C. 7th L. from bottom	without no friction	without friction
59	in Fig.	2.5 teeth	1.5 or 2.5 teeth
61, 70	16	. CA9072 titled	CA9072 tilted
74	Right C. 2nd B. 3rd L.	by a 6V tester with	by a 3V tester with
77	Center C. bottom L.	0.7mm or more	0.4mm or more
95	3rd L. from bottom	instead of V in 6 Defective Normal	instead of (in (
104	Center C. bottom L.	Approx. 8mV12mV	Approx. 8mA12mA
108	Right C 1st L. Right C. 9th L.	Disconnect the black (2 wires of	Disconnect the blue (2 index lines of
109	Center C. in Fig.	R305 R304	R306 R305
120	Center C. Fig.	Comedine 3000ES	Concave (die casting)
121	Left C. 3rd L. Center C. 1st L. Center C. Fig.	1306 1306 4 2.4 KQ	R305 R305 \$ 68.3 KΩ
122	Left C. 2nd B. 6th L.	2.5 teeth	1.5 or 2.5 teeth
76, 92, 94, 98, 99, 102, 103, 104, etc.	3rd L. in Fig.	Off Set Off set	Offset



OUTLINE OF REPAIRS

PRECAUTIONS FOR REPAIRS

The Model CM-2 is designed for very weak electricity in its electronic parts of the automatic exposure device so that it can measure and control an extremly low level of luminance (-5.5EV at ASA 100).

The electronic parts thus tend to be affected by static electricity or a voltage larger than that of the batteries used, and to suffer easily performance degradation or breakage due to the static electricity that a human body usually possesses. (The OM-2, however, is designed so as not cause such disadvantage in a completed state.)

Because of the above reason, if you should handle the OM-2 in the same way as with other cameras in repairs, the electric parts may be broken causing serious trouble that requires replacement of the shutter amplifier (M circuit board).

Take particularly the following cautions in repairs.

- 1. For the troubleshooting of the shutter amplifier and related mechanism, be sure to ground all materials that come into contact with the electronic parts including the human body, repair tools and work bench, and commence repair work after making sure the condition free from static electricity is achieved. (The ICs of MOS FET and IRO24 are particularly delicate.)
- For the soldering work, use a three-wire type soldering iron with the tip grounded.

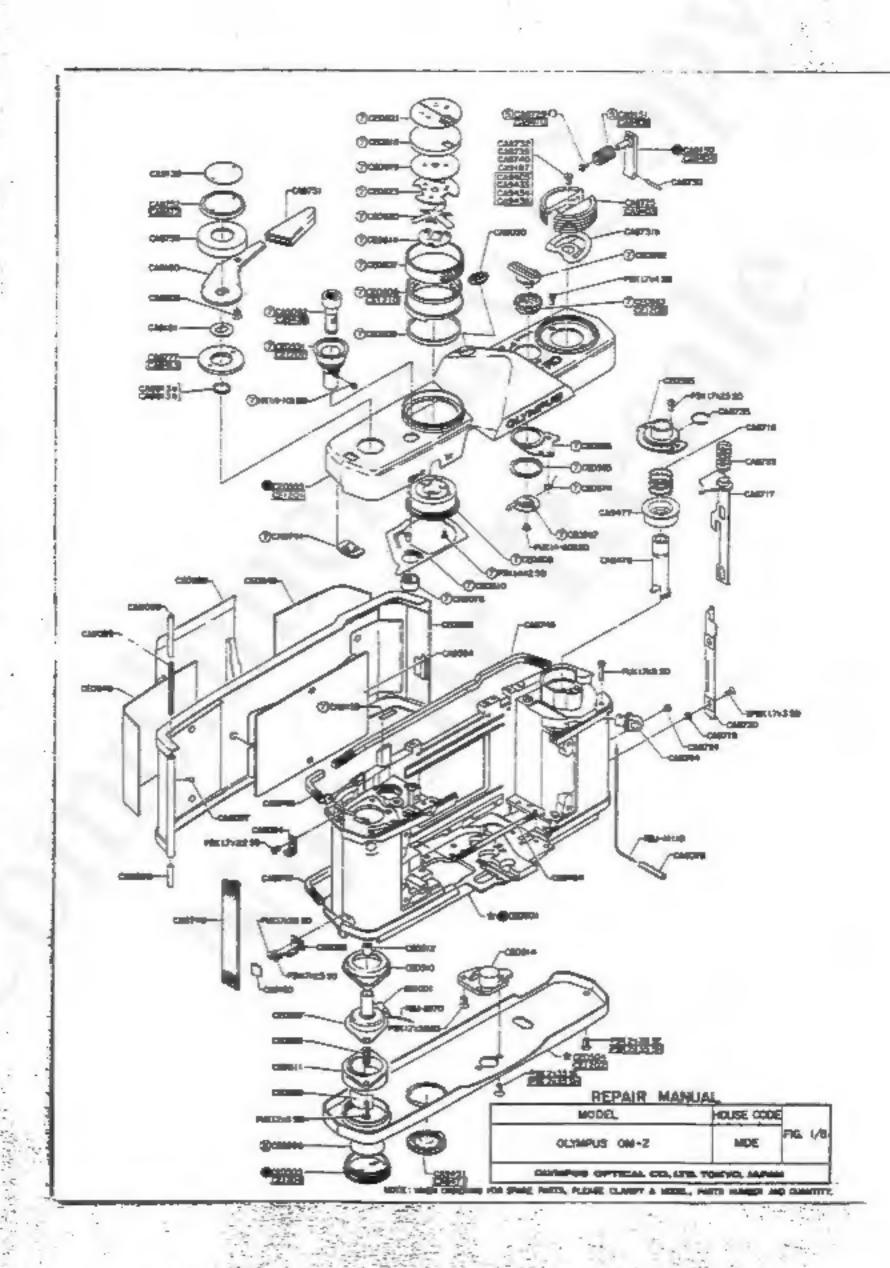
- 3. The electronic parts are weak against heat. Thus, the soldering work must be made securely in a short time, 3 seconds for one place as a rule.
- 4. The shutter amplifier (M circuit board) requires very high insulation resistance on its every part, and must be kept free from dust, smudges, etc.
- 5. For the soldering of the shutter amplifier (M circuit board), use solder containing silver. If ordinary solder should be used, the silver in the circuit pattern may be absorbed by the solder causing unstuck soldering.
- 6. When a constant-voltage power supply is used in the shutter amplifier (M circuit board) repair work, do not turn on and off the main switch of the power supply leaving it connected to the M circuit board. Back electromotive force may break the electronic parts.
- 7. When a continuity test is made in the shutter amplifier (M circuit board) repair work, avoid to use the 3V tester for the case other than specified in the OUTLINE OF REPAIRS. The electronic parts may be broken.
- 8. For other cautions, see each item in the OUTLINE OF REPAIRS.

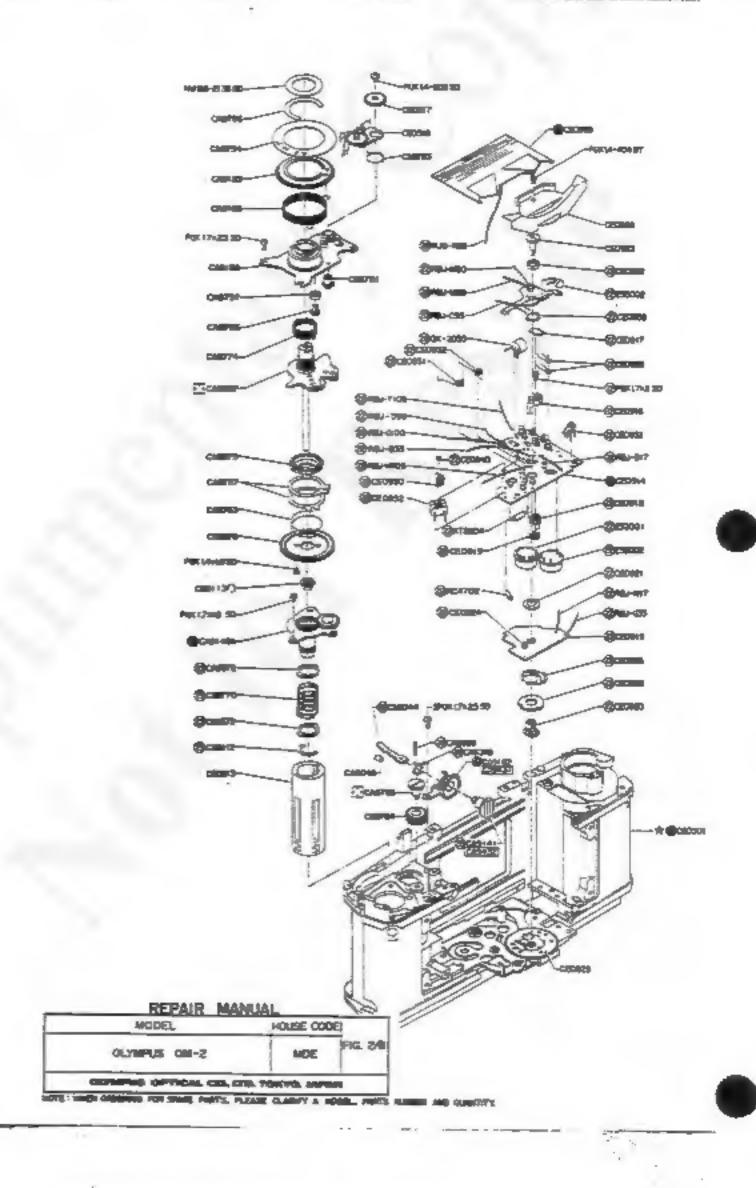


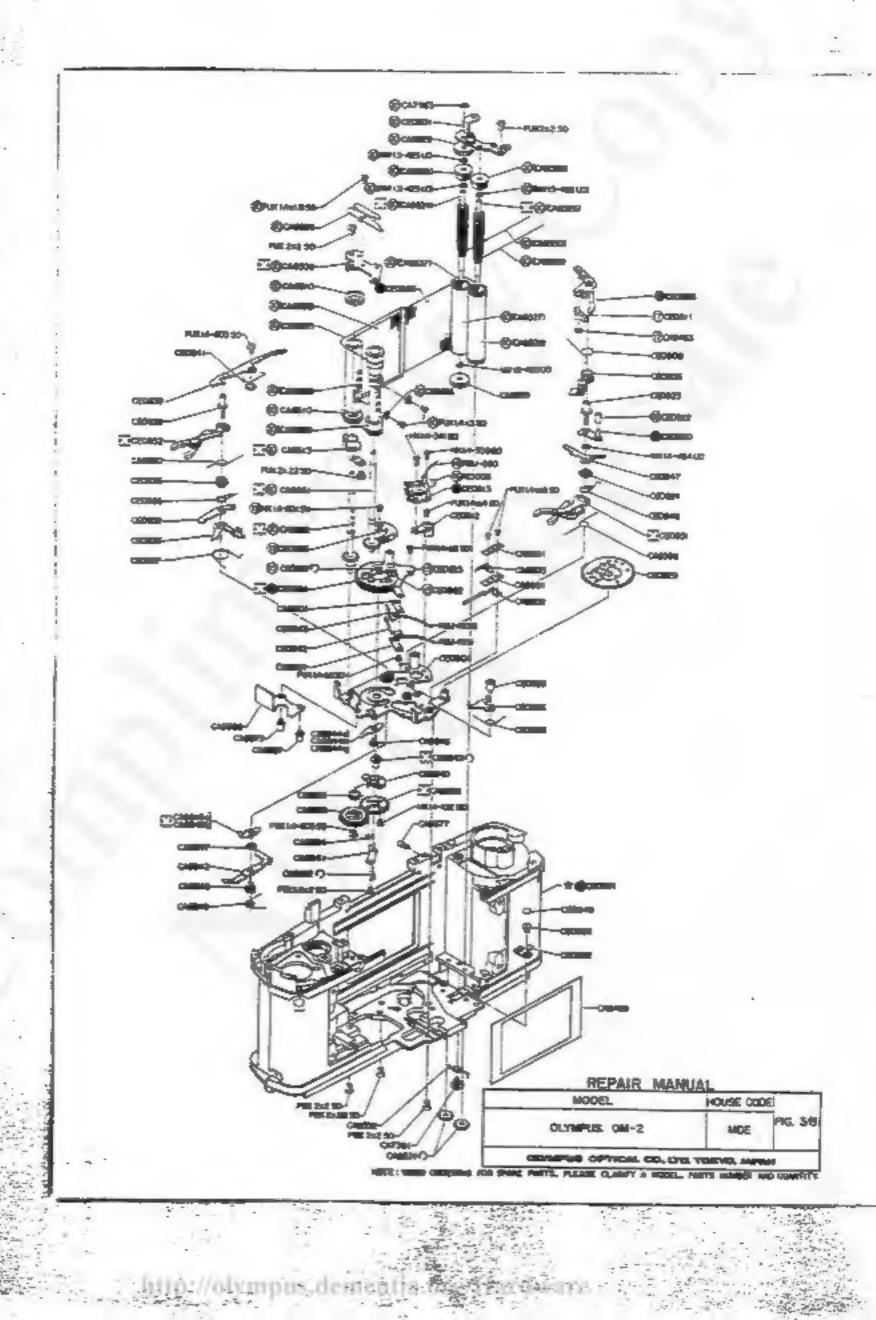
PARTS LIST & DRAWING

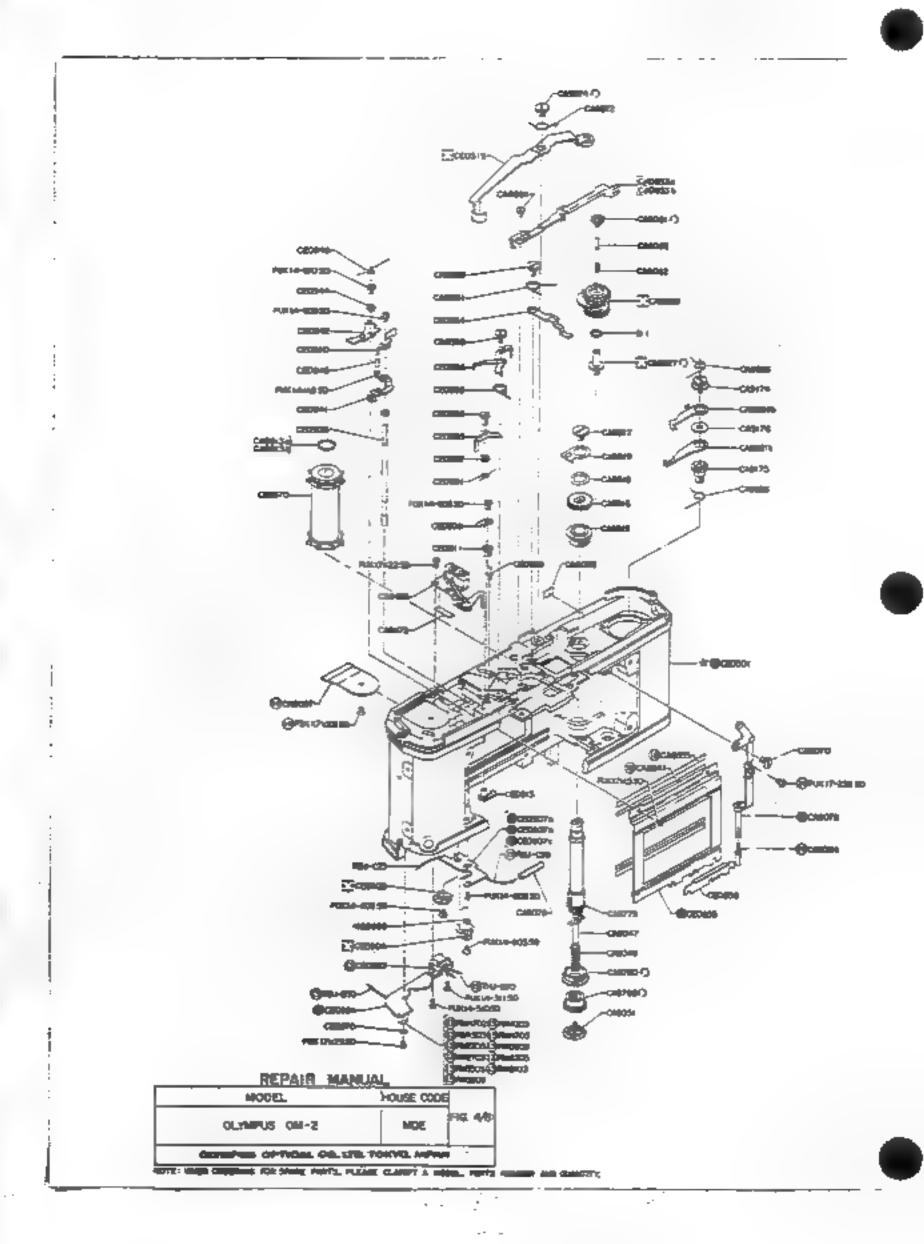
EXPLANATORY NOTES ON VARIOUS MARKS & NUMBERS USED IN IMPROVED PARTS TABLE & PARTS LIST

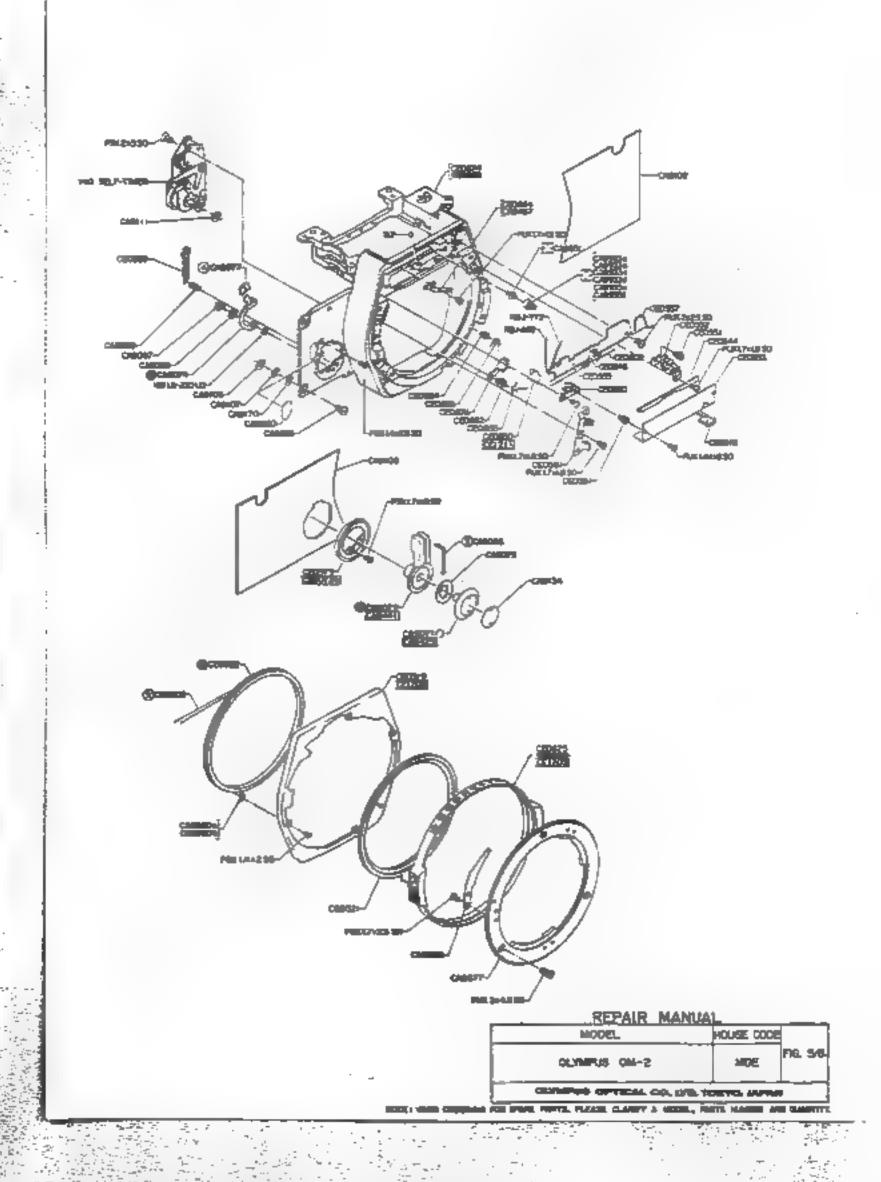
*	Only Body Die-Cast is not available in case of overseas.
0	An assembled parts is supplied including parts marked with
1	Single parts is supplied.
()	Not to be supplied in single parts, but as an assembled parts.
0	Left-handed screw. (the mate screw hole is not marked particularly). All right-handed screws have no special indication.
< >	Improved parts. Number shows INDEX in IMPROVED PARTS TABLE where more details are explained.
	No more available parts.
\Rightarrow	The place where parts have been improved.
[]	Dimensions of improved parts and improved points.
∆ ♦♦	Replacing parts of no more available parts marked with == .
*	How to replace parts or how to repair.
	Original parts are also usable instead of improved parts.
\times	Printing error. No parts are built-in cameras.
	Clarify HOUSE CODE, PARTS HOMBER and QUANTITY in your ORDER SHEETS.

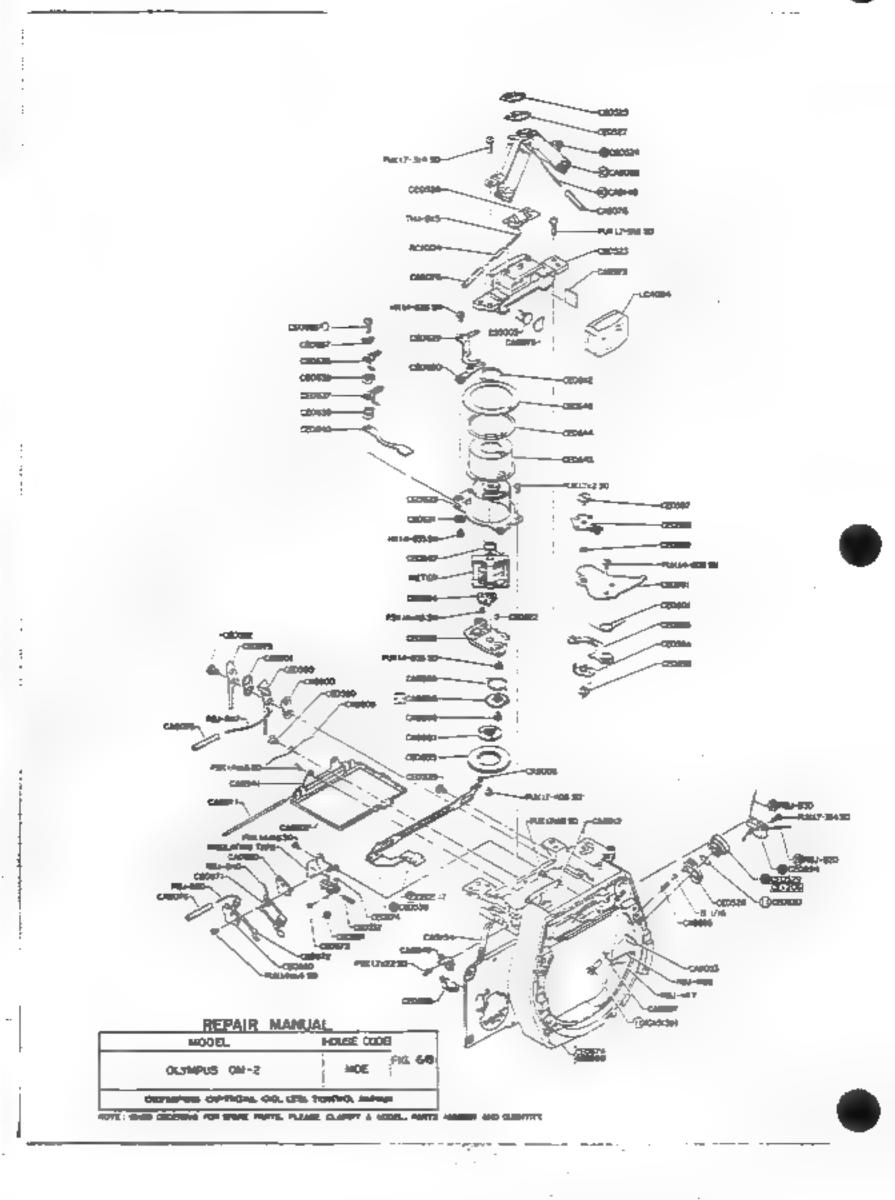


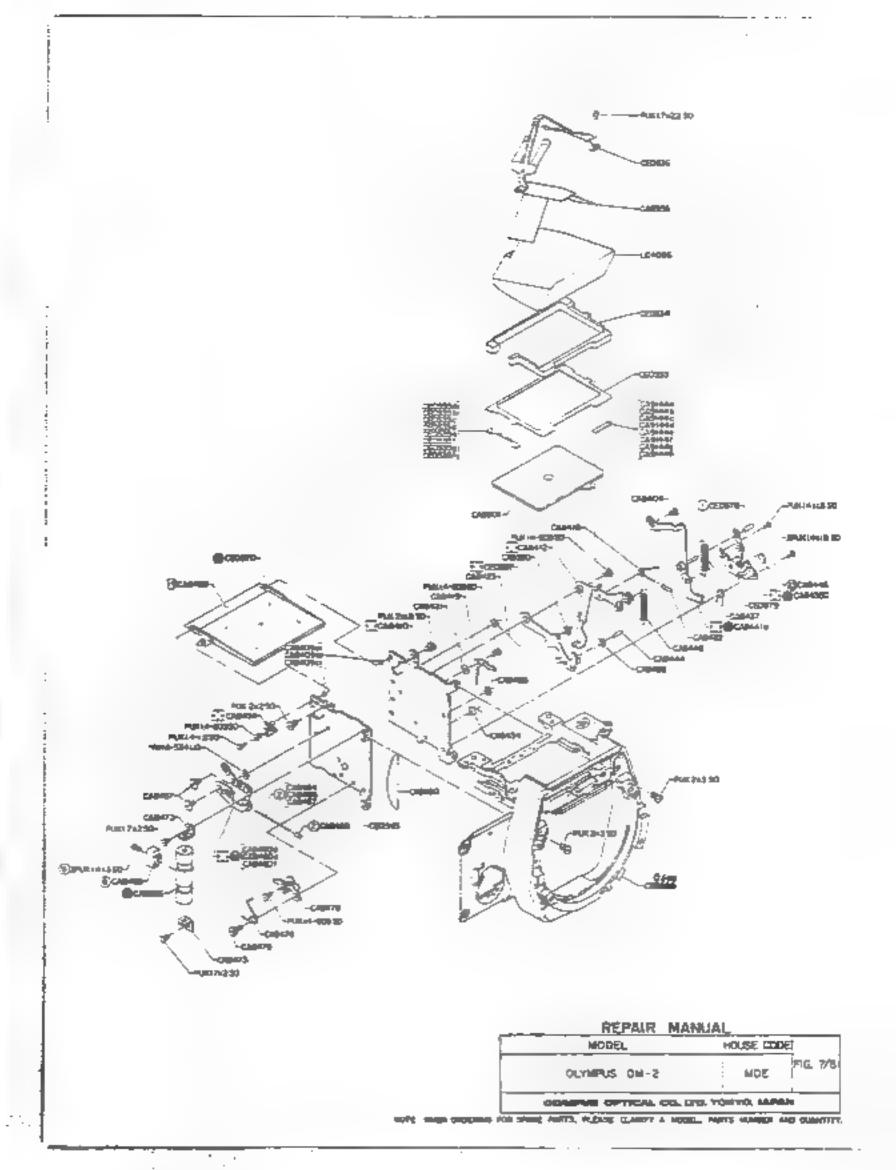


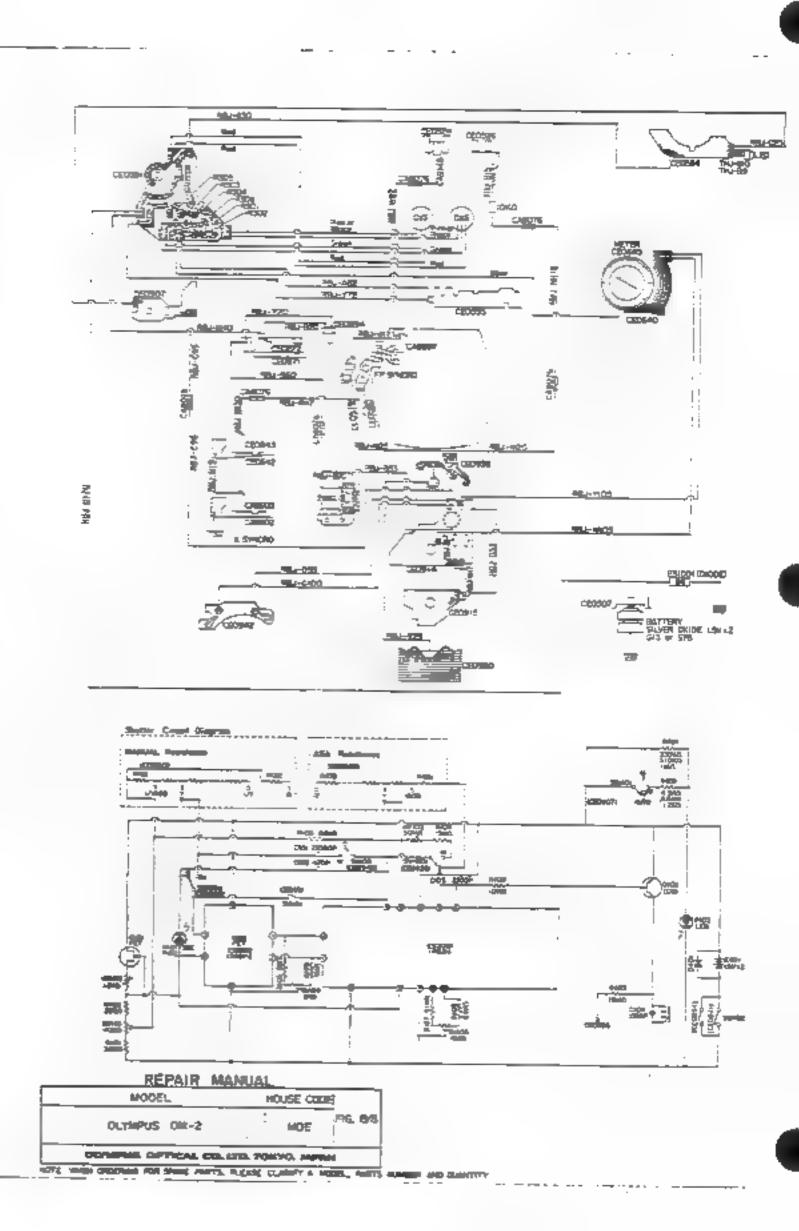












PARTS NO.	NAME OF PARTS	PARTS NO.	NAME OF PARTS
CA 7381	STOPPER SCREW	CA 8586	A LEVER SPRING
7963	RING E	8590	B LEVER SPRING
8076	TUBE	8598	S LEVER WASHER
		8601	STOPPER PLATE
8404	M LEVER SCREW	8602	"X" SYNCHRO CONTACT POINT
8409a	ADJUSTING WASHER a	8603	"FX" SYNCHRO CONTACT POINT
8409ъ	ADJUSTING WASHER b	8661	TUBE SHAFT A
8409c	ADJUSTING WASHER C	8662	TUBE SHAFT B
8410	LEFT SIDE PLATE	8666	ADJUSTING WASHER
8412	M CHARGING LEVER	8716	R COLLAR SPRING
8418	STOPPER SPRING	8717	KEY A
8419	M HOOKING LEVER	8719	KEY COLLAR
8421	HOOKING LEVER SPRING	8720	KEY COVER
8422	TUBE 2	8722	KEY SPRING
8423	RETURNING SPRING	8724	KEY POSITIONING SCREW
8434	HOOK SPRING	8725	R KNOB
8435c	M BASE PLATE C	8729	R PINCH SET SCREW
8437	MS SPRING	8730	R LEVER PIN
84415	M LEVER b	8731	R LEVER SPRING
8/446	M RING	8732	R LEVER WASHER
8448	CONNECTING LEVER SPRING	8735	R SPRING
8454	M PIVOT	8739	LEVER WASHER 2
8457	LEVER SHAFT	8740	R LEVER STOPPER 3
3450d		8741	FILM COUNTER COVER
8460e	LINK d	8744	STRAP EYELET
	LINK e	8745	
8460f	LINK f		LIGHT PROOF L
8463	E RING 08	8746 8747	LIGHT PROOF R
8464	SPRING I		LIGHT PROOF (LOWER)
8466	SPRING 2	8748	LIGHT PROOF (SIDE)
8467	SPRING 3	8751	FW LEVER COVER
8468	SPRING COVER	8752	FW LEVER HOLDER
8469	PIPE CONNECTOR	8753	FW LEVER DECORATION
8473	PIPE HOLDER (UPPER)	8757	F PLATE
8476	POSITIONING SPRING	8763	F SPRING
8478	M POSITIONING PLATE	8764	ST IDLE
8479	M POSITIONING SHAFT	8765	IDLE SHAFT
8483	LIGHT PROOF PLATE	8770	SPOOL SPRING
8490	RIGHT COVERING PLATE	8774	FW SPRING
8499	B MASK	8777	FASTENING RING
8508	CURTAIN BASE R	8778	FC RETURNING LEVER
8510	ROLLER A	8779	ST SHAFT
8513	RULLER HOLDER	8780	SPROCKET HOLDER (UPPER)
8529	ROLLER B	8781	FC GEAR SHAFT
8531	TENSION NUT	8783	FC RETURNING SPRING
8532	TENSION NUT STOPPER	8786	C RING
8535	FELT B	8788	ST GEAR
8541	FELT A	8794	FC PLATE

- 1 -

PARTS NO.	NAME OF PARES	PARTS NO.	NAME OF PARTS
CA 8796	L STOPPER	CA 8915	DAMPER #2
8797	WASHER (RUBBER)	8931	PULLEY SHAFT
8806	FW LEVER COVER STOPPER	8933a	RETURNING ROLLER a
8813a	WASHER la	8933b	RETURNING ROLLER b
88135	WASHER 1b	8933c	RETURNING ROLLER C
8815	SPROCKET HOLDER (LOWER)	89334	RETURNING ROLLER d
8816	GEAR #I	8933e	
8817	GEAR #I SCREW	8933£	RETURNING ROLLER f
8818	GEAR #I SPRING	8936	P COVER
8819	K CLAW	8939	B SPRING SHAFT
8821ъ	CHECKING LEVER	8941	F HINGE
88246	LOCK LEVER b	8949	B SPRING PLATE
8826	LOCK SPRING	8950	COVERING PLATE
8827	SHAFT #2	8960a	COVERING PLATE WASHER &
8828	GEAR #2 SHAFT	89605	COVERING PLATE WASHER b
8836	CEAR #3	8969	STOPPER 61
8839	CEAR #4	8973	C LIGHT PROOF
8840	S WINDING PLATE	8975	C COVER
8841	GEAR #4 BASE	8981	M PULLEY HOLDER
8842	KS LEVER	8996	M LOWER PLATE GEAR
8843	SHAFT #4	8998	
8844a	LEVER la	8999	GEAR SHAFT
2844b	LEVER 1b		GEAR SPRING
8844c	LEVER 1c	9008 9030	PULLEY SCREW
8845a	LEVER #2e		I NUT
8845b	LEVER #2b		P MATE
3846		9044	K INNER PLATE
8847	LEVER STOPPER	9045	K LEVER SPRING
8848	KS HOLDER	9046	K PLATE HOLDER
	KS SHAFT	9047	ST CLAW
8849	KS SPRING	9049	ST SPRING
8851	GEAR #3 SPRING	9051	ST SCREW
8852	SHAFT #4 SCREW	9053	LEVER CUSHION
8854	S RING	9061	ME GUIDE
8857	BASE PLATE SHAFT	9062	COVER SPRING
8859	BULB PLATE SCREW	9063	COVER PIN
8861	RETURNING SPRING	9070	■ SCREW
8864	KL SHAFT	9071	LEVER STOPPER
8872	KM SPRING	9072	ST LEVER
8877	B MOUNT	9074	START LEVER
8888	B MOUNT SPRING	9075	F SPRING
8897	FF SYNCHRO CONTACT POINT	9076	RELEASE BASE NUT
8899	FX SYNCHRO CONTACT SPRING	9077	START LEVER CAP
8900	INSULATING PLATE	9078	S RELEASE PLATE
8901	INSULATING PLATE	9082	S RELEASE BUTTON
8907	F FRAME	9084	SR SUTTON SHAFT
8909	F SPRING	9086	S LEVER PLATE
8911	F SHAFT	9087	D SCREW
3912	F LOCK SCREW	9088	W SPRING

9095 9097 HINGE PIN 9098 HINGE PIN 9099 HINGE PIN 9100 COVERING I 9102 LEFT SIDE 9103 RIGHT SIDE 9106 ADJUSTING 9107 ADJUSTING 9111 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING I 9135 COVERING I 9144 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91447 FRONT ADJU 91446 FRONT ADJU	OF PARTS	PARTS NO.	NAME OF PARTS
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9095 9097 9098 9099 9100 9100 9100 9102 9103 9106 9106 9107 9111 9148 9113 9144a 9144a 9144a 9144b 9144a 9144b 9144c 9144d 914d 91	HOLDER (UPPER)	9377	FILM GUIDE SCREW
9097 9098 9099 9100 9100 9100 9102 1EFT SIDE 9103 9106 9107 9107 9111 ST WASHER 9113 9144 9144 91444 91444 91444 91444 91444 91444 91446 91446 91446 91446 91446 91446 91446 91446 91446 91447 91447 91448 9150 91448 9150 91448 9150 9154 1EVER 9151 9154 1EJHT PROOF 9155 9156 LIGHT PROOF 9155 9156 LIGHT PROOF 9157 9174 LEVER SHAFT 9175 H HOLDER 9170 9174 LEVER SHAFT 9175 H HOLDER 9180 9181 LEVER WASHI 9183 9186 FC RASE PLA 9187 R LEVER WASHI 9185 9186 FC RASE PLA	HOLDER (LOWER)	9378	
9099 HINGE PIN 9099 HINGE PIN 9100 COVERING I 9102 LEFT SIDE 9103 RIGHT SIDE 9106 ADJUSTING 9107 ADJUSTING 9111 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING E 9135 COVERING E 9144 FRONT ADJU 91446 FRONT ADJU 91447 FRONT ADJU 91448 FRONT ADJU 91448 FRONT ADJU 91448 FRONT ADJU 91449 FRONT ADJU 91440 FRONT ADJU 91441 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91447 FRONT ADJU 91448 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING FRONT 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9175 H HOLDER 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH 9187 R LEVER WASH		9379	(COVERING PLATE NO. 3)
9099 HINGE PIN 9100 COVERING 1 9102 LEFT SIDE 9103 RIGHT SIDE 9106 ADJUSTING 9107 ADJUSTING 9111 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING E 9135 COVERING E 9141 K PINCH 9144a FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144d FRONT ADJU 9145 FRONT ADJU 9145 FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9157 ADJUSTING W 9174 LEVER SHAF 9175 H HOLDER 9176 LEVER SHAF 9175 H HOLDER 9176 LEVER SHAF 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9186 FC RASE PLA 9187 R LEVER WASH 9187 R LEVER WASH 9187 R LEVER WASH		9380	3G HOOK SCREW
9100 COVERING 1 9102 LEFT SIDE 9103 RIGHT SIDE 9106 ADJUSTING 9107 ADJUSTING 9107 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING E 9135 COVERING E 9144 FRONT ADJU 91444 FRONT ADJU 91444 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91447 FRONT ADJU 91448 FRONT ADJU 91448 FRONT ADJU 91448 FRONT ADJU 91459 FRONT ADJU 91460 SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9157 R BASE PLAT 9170 ADJUSTING N 9174 LEVER SHAF 9175 H HOLDER 9176 LEVER SHAF 9176 FILM WINDI 9181 LEVER WASH 9183 FILM COUNTE 9186 FC RASE PLAT 9187 R LEVER WASH 9187 R LEVER WASH 9187 R LEVER WASH 9188 FC RASE PLAT 9187 R LEVER WASH 9187 R LEVER WASH		9385	LEVER COLLAR (RUBBER)
9102 9103 9106 9107 9107 9107 9107 9111 ST WASHER 9112 9134 COVERING F 9135 GEAR FASTE 9144 9144a 9144b 9144c 9144d 9144d 9144d 9144d 9144d 9144f FRONT ADJU FRONT AD			A PIPE
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9106 9107 9111 9111 9112 9112 9134 9134 9135 9135 9141 9144a 9144a 9144b 9144c 9144c 9144d 9144d 9144d 9144d 9144f 9145 9146b 9146b 9150 9151 9150 9151 R PINCH 9154 9156 LEAD WIRE 9150 9151 R PINCH 9155 9166 9167 R PINCH 9154 PINCH 9155 PRONT CAST LIGHT PROOF 9155 PRONT CAST LIGHT PROOF 9156 UGHT PROOF 9157 HOLDER 9176 PINCH 9176 PINCH 9176 PINCH 9176 PINCH 9181 PINCH P		9388	STOPPER PLATE (UPPER)
9107 9111 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING F 9135 GOVERING F 9141 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91446 FRONT ADJU 91447 FRONT ADJU 91448 FRONT ADJU FRONT ADJU 9145 FRONT ADJU FRONT CAST LEVER 9151 FRONT CAST LIGHT PROOF FRONT CAST LIGHT PROOF FRONT CAST LIGHT PROOF FRONT CAST FILM WINDI 9174 LEVER SHAFT 9175 H HOLDER 9176 FILM WINDI 9181 FILM COUNTE 9183 FILM COUNTE 9185 FC BASE PLA 9187 R LEVER WASH 9187		9389	STOPPER PLATE (LOWER)
9111 ST WASHER 9112 C WASHER 9113 GEAR FASTE 9134 COVERING F 9135 COVERING F 9141 K PINCH 9144a FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144d FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9146b SPOOL SHAF 9150 FRONT CAST UGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9157 ADJUSTING F 9176 LEVER SHAF 9175 H HOLDER 9176 LEVER SHAF 9175 H HOLDER 9176 FILM WINDI 9181 FILM COUNTE 9181 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WASH 9187		9394	PRESSURE PLATE
9112 C WASHER 9113 GEAR FASTE 9134 COVERING E 9135 COVERING E 9141 K PINCH 9144a FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144d FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144h FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144c FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9145 LEVER SHAFT 9150 FRONT CAST 9151 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9175 H HOLDER 9176 FILM WINDI 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WASH 9187		9444	TUBE 3
9113 9134 9135 9135 9141 9144a 9144a 9144b 9144c 9144d 9144d 9144d 9144e 9144f 9144f 9144f 9144f 9144f 9144b 9144h 9144b 9144h 9146b 9146b 9148 9150 9151 9151 9154 9152 R PINCH 9154 9155 9156 9155 9156 9157 PRONT CAST 9156 9157 PRONT CAST 9156 9167 PRONT CAST 9176 9174 LEVER SHAF 9175 H HOLDER 9176 9176 PILM WINDIN 9181 PILM WINDIN 9181 PILM COUNTE 9183 PILM COUNTE	•	9451	M COVER
9134 COVERING F 9135 COVERING F 9141 K PINCH 9144a FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144e FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9145 FRONT CAST 9150 FRONT CAST 9151 R PINCH 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9175 H HOLDER 9176 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9181 FILM WINDI 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SP 9186 FC BASE PLAT 9187 R LEVER WASH 9187		9472	SW WASHER
9135 COVERING F 9141 K PINCH 9144a FRONT ADJU 9144b FRONT ADJU 9144c FRONT ADJU 9144d FRONT ADJU 9144f FRONT ADJU 9144f FRONT ADJU 9144h FRONT ADJU 9144h FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 11GHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAF 9175 H HOLDER 9176 LEVER SHAF 9176 FILM WINDIN 9181 FILM COUNTE 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH		9476	R SHAFT
9144 FRONT ADJU- 9144b FRONT ADJU- 9144c FRONT ADJU- 9144d FRONT ADJU- 9144d FRONT ADJU- 9144f FRONT ADJU- 9144b FRONT ADJU- 9144c FRONT ADJU- 9144b FRONT ADJU- 9145 FRONT ADJU- 9146 FRONT ADJU- 9144 FRONT ADJU- 914		9477	R COLLAR
9144a FRONT ADJU- 9144c FRONT ADJU- 9144d FRONT ADJU- 9144d FRONT ADJU- 9144f FRONT ADJU- 9144f FRONT ADJU- 9144h FRONT ADJU- 9144h FRONT ADJU- 9146b SPOOL SHAF- 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST LIGHT PROOF 9162 K BASE PLAT 9176 LEVER SHAFT 9176 LEVER SHAFT 9176 PLATE SHAFT 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH 9187	PLATE NO. 2	9483	SW BASE PLATE
9144b FRONT ADJU- 9144c FRONT ADJU- 9144d FRONT ADJU- 9144f FRONT ADJU- 9144f FRONT ADJU- 9144b FRONT ADJU- 9145 FRONT ADJU- 9146b SPOOL SHAF- 9150 FRONT CAST- 9151 R PINCH 9154 LEVER SHAF- 9155 FRONT CAST- 11GHT PROOF 9156 K BASE PLA- 9176 LEVER SHAF- 9176 LEVER SHAF- 9176 FILM WINDIN 9181 LEVER WASH- 9183 FILM COUNTE 9185 COUNTER SPI 9186 FC BASE PLA- 9187 R LEVER WASH- 9187		9487	CLICK SPRING
9144c FRONT ADJU- 9144d FRONT ADJU- 9144e FRONT ADJU- 9144f FRONT ADJU- 9144g FRONT ADJU- 9144h FRONT ADJU- 9144h FRONT ADJU- 9146b SPOOL SHAF- 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 1 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 1 LEVER SHAFT 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH 9187 R LEVER WASH		9488	RUBBER RING 3
9144d FRONT ADJU 9144e FRONT ADJU 9144f FRONT ADJU 9144g FRONT ADJU 9144h FRONT ADJU 9144h FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT N HOLDER 9176 FLEW WINDIN 9176 FLEW WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH	USTING FLATE b	9494	FELT II
9144e FRONT ADJU 9144f FRONT ADJU 9144g FRONT ADJU 9144h FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 9176 FILM WINDI 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH	USTING PLATE c	9501	FOCUSING SCREW
9144f FRONT ADJU 9144g FRONT ADJU 9144h FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH	USTING PLATE d		
9144g FRONT ADJU 9144h FRONT ADJU 9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAF 9175 H HOLDER 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH	USTING FLATE e	CE 0501	(DIE CAST BODY)
9144h 9146b 9148 9148 9150 ■ LEVER 9151 9151 R PINCH 9154 9155 FRONT CAST 9155 9156 LIGHT PROOF 9162 K BASE PLAT 9170 9174 PITTER 9175 H HOLDER 1EVER SHAFT 9176 9181 FILM WINDIN 9181 9183 FILM COUNTY 9185 9186 FC BASE PLAT R LEVER WASH 9187 R LEVER WASH	ESTING PLATE £	0502	FRONT CASTING
9146b SPOOL SHAF 9148 LEAD WIRE 9150 LEVER 9151 R PINCH 9151 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 1EVER SHAFT 9176 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPO 9186 FC BASE PLAT 8 LEVER WASH 9187 R LEVER WASH	USTING PLATE g	0503	TOP COVER
9148 9150 ■ LEVER 9151 R PINCH 9154 PISS PRONT CAST 9155 PRONT CAST 9156 PISS 9162 ADJUSTING V 9174 PISS PISS PISS PISS PISS PISS PISS PIS	ISTING PLATE h	0504	BOTTOM PLATE
9150 9151 R PINCH 9154 9155 FRONT CAST 9156 9162 K BASE PLAT 9170 ADJUSTING V 9174 LEVER SHAFT 9175 H HOLDER 9176 PINCH 9181 PILM WINDIN 9181 FILM COUNTY 9185 GOUNTER SPI 9186 R LEVER WASH 9187 R LEVER WASH		0505	BATTERY COMPARTMENT LID
9150 9151 R PINCH 9154 9155 FRONT CAST 9156 9162 K BASE PLAT 9170 ADJUSTING V 9174 LEVER SHAFT 9175 H HOLDER 9176 PINCH 9181 PILM WINDIN 9181 FILM COUNTY 9185 GOUNTER SPI 9186 R LEVER WASH 9187 R LEVER WASH	(45mm long, BLACK)	0506	COVERING SEAL
9154 LIGHT PROOF 9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH		0507	B COVER
9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING F 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH		0509	B CONTACT POINT
9155 FRONT CAST 9156 LIGHT PROOF 9162 K BASE PLAT 9170 ADJUSTING F 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH	F PADDING (UPPER)	0510	INSULATION COVER
9162 K BASE PLAT 9170 ADJUSTING V 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH	ING SET SCREW	0511	B HOUSING
9162 K BASE PLAT 9170 ADJUSTING W 9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASH 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLAT 9187 R LEVER WASH	F PADDING M	0512	COLLAR
9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASHE 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WAS		0513	SPOOL B
9174 LEVER SHAFT 9175 H HOLDER 9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASHE 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WAS	WASHER 3	0514	TRIPOD BASE
9176 LEVER SHAFT 9180 FILM WINDIN 9181 LEVER WASHE 9183 FILM COUNTY 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WAS	T	0515	KM LEVER
9180 FILM WINDIN 9181 LEVER WASHI 9183 FILM COUNTY 9185 COUNTER SPI 9186 FC BASE PLA 9187 R LEVER WAS		0516	
9180 FILM WINDIN 9181 LEVER WASHI 9183 FILM COUNTY 9185 COUNTER SPI 9186 FC BASE PLA 9187 R LEVER WAS	T WASHER	0517	FC GEAR
9181 LEVER WASHE 9183 FILM COUNTE 9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WAS		0519	FRONT COVERING PLATE
9183 FILM COUNTY 9185 COUNTER SPE 9186 FC RASE PLA 9187 R LEVER WAS		0520	SHUTTER DIAL
9185 COUNTER SPE 9186 FC BASE PLA 9187 R LEVER WAS		0521	DIAL GEAR
9186 FC RASE PLA 9187 R LEVER WAS		0522	CONNECTING RING
9187 R LEVER WAS		0523	S FRAME
		0524	S BASE
		0525	
9370 SPROCKET		0526	S INSULATING WASHER
9372 SPOOL HOLDE	ER	0527a	S CONTACT POINT
9374 M LEVER SHA		0527b	■ WASHER a T WASHER ■

PARTS NO.	NAME OF PARTS	PARTS NO.	NAME OF PARTS
CE 0528	FX SINCERO KNOB	CE 0587	SLIDE SCREW
0529	SINCHRO SOCKET	0588	SLIDE PLATE
0530	P STOPPER SPRING	0589	SLIDE HOLDER
0531	BUTTON COVER	0591	SW CIRCUIT BOARD
0532	FP SCREW	0593	CAN SHAFT
0533	MASK	0594	CAN S
0534	PRISM WASHER	0595	CHENGE LEVER
0535a	REAR ADJUSTING PLATE &	0601	RETURNING SPRING
0535Ъ	REAR ADJUSTING PLATE b	0602	B STRING 1
0535c	REAR ADJUSTING PLATE c	0603	B STRING 2
0535d	REAR ADJUSTING PLATE d	0604	SPRING HOLDER
0535e	REAR ADJUSTING PLATE e	0606	A DIAL
0535£	REAR ADJUSTING PLATE E	0607	RUBBER RING
0535g	REAR ADJUSTING PLATE &	0608	CLICK RING
0535h	REAR ADJUSTING PLATE h	0609	L NUT
0536	P STOPPER	0610	LOCK SPRING
0537	CONNECTING LEVER	0614	CAM SPRING
0538	SLIDER	0618	A CAP
0539	SL SHAFT	0619	A PLATE
0543	RIGHT SIDE PLATE	0620	MK PLATE
	GUIDE PLATE	0621	EV PLATE
0544		0622	INSULATION SHAFT
0546	SL CONTACT	0623	
0547	INDICATION PLATE		COVERING PLATE
0550	ROLLER	0624	M GEAR 2
0551	ROLLER SCREW	0625	M BASE
0352	RIGHT SIDE PLATE	0626	M LOWER PLATE
0553	COVERING PLATE	0629	A LEVER 1
0555	CIRCUIT BOARD 8	0630	A LEVER 2
0557	SPRING	0631	WASHER
0559	B SPRING	0635	PULLEY M
0560	F SPRING SHAFT	0636	A CONTACT I
0561	STOPPER	0637	A CONTACT 2
0562	S LEVER	0638	CONTACT BASE 1
0563	SW WASHER	0639	CONTACT BASE 2
0565	NUT	0640	BASE PLATE A
0566	C BASE PLATE	0642	C WASHER
0567	K LEVER	0643	A CAM
0570	INSULATING WASHER	0644	WASHER
0574	C SPRING	0645	AR BASE PLATE
0575	S BASE COVER	0647	ST SPRING
0578	SR TUBE	0648	REAR RIGHT SIDE LEATHER
0579	F CONTACT (UPPER)	0649	REAR RIGHT SIDE LEATHER
0580	F CONTACT (LOWER)	0650	RESET BUTTON
0581	F NUT	0652	HOOK SHAFT
0582	F SCREW	0653	HOOK SPRING
0583	CL HOUSE	0654	EL SPRING HOLDER
0584	C CIRCUIT BOARD	0655	BL SPRING
0585	R SHAFT HOLDER	0656	REAR COVER ASS'Y

PARTS NO.	NAME OF PARTS	PARTS NO.	NAME OF PARTS
CE 0658	HOLDING SPRING	CE 0863	CURTAIN ASS'Y
0659	LIGHT PROOF PADDING (LOWER)	0864	GEAR AB
0660	8 NAME PLATE	0865	GEAR PLATE B
0663	SL INSULATING PLATE	0866	REAR CLAW A
0664	CLICK SPRING	0870	M FRAME
0665	INSULATION FLATE	0871	M CONTACT 1
0666	A SCREW	0872	M CONTACT 2
0667	INSULATION PLATE	0874	M INNER PLATE
0674	FRONT CASTING	0875	M TUBE
0675	■ DIAL	0879	M SPRING
0676	BL LEVER	0882	M RELEASE
0801	S BASE PLATE	0883	MR SHAFT
0805	HOOK LEVER	0885	TURN PLATE A
0808	SPRING A	0886	TURN PLATE B
0811	HOLDING PLATE	0887	TURN COLLAR
0812	MG BASE	. 0888	TURN SCREW
0813	MG PLATE	0889	SPRING STOPPER
0819	SPRING B	0891	TURN SPRING A
0820	TR PLATE	0892	TURN SPRING B
0822	T TUBE	0894	M2 WASHER
0823	REAR SHAFT	0901	PLATE L
0824	REAR NUT	0902	C CAM
0825	S PLATE (UPPER)	0904	C LEVER
0826	B LEVER	0906	C SHAFT
0828	8 SPRING	0907a	C BASE a
0829	SPEED GEAR	0907ь	C BASE b
0832	FIRST CLAW A	0907c	C BASE .
0833	FIRST CLAW	0909	C PLATE I
0835	FIRST SHAFT	0910	C PLATE 2
0836	FIRST SPRING A	0911	C BOSS
0837	FIRST SPRING B	0913	C PLATE 3
0838	B LEVER SCREW	0914	M CURCUIT BOARD
0839	M LEVER	0915	CURCUIT BOARD
0841	M SPRING	0916	CAM SHAFT
0842	X CONTACT A	0917	PLASTIC CAP
0843	X CONTACT B	0918	CAM NUT
0847	LOCK LEVER	0919	C SPRING 2
0848	SL LEVER	0920	BASE TUBE
0851	A LEVER 2	0921	INSULATING PLATE
0852	B LEVER 2	0922	PLASTIC NUT
0853a	KL PLATE a	0923	SCREW
0853ъ	KL PLATE	0924	STOPPER
0854	B PLATE	0925	SPEED PLATE
0855	F MASK	0926	POSITION NOT
0856	MASK STOPPER	0928	B SCREW
0860	STOPPER PLATE	0930	T FASTENER
0861	GEAR SCREW	0931	T CONTACT A
0862	B STOPPER RING	0932	T CONTACT B

PARTS NO.	NAME OF PARTS	PARTS NO.	NAME OF PARTS
CE 0935	K CONTACT	RJ	SISTOR
0938	SUB CIRCUIT BOARD	_	
0940	STOPPER		8M 1704
0941	C BASE PLATE		1804
0942	C BASE		1805
0944	C COLLAR		1904
0945	C TUBE		2004
0946	C SPRING 3		
0949	RM PLATE		2203
0952	L BASE		2204
0955	COVERING PLATE		2304
0956	LOWER COVER		2403
4334	AND TOTAL		2404
LC 4084	EYE PIECE LENS		2504
			2604
4086	PENTAPRISM		2703
			2704
	EXPOSURE METER ASS'Y		2705
			2804
₹ 40	SELF TIMER		2904
			3004
ES 1001	DIODE		3104
2001	IR-024		3204
2002	IS-001Z		3303
5002	LED		3304
5003	CdS		3404
			3504
QK 2030	FET		3604
Ť		1	
CONID	ENSER		3903
	and the stage of the		4303
	KC 1003		4702
·	KC 4702	1	4703
	KT 2204		4705
	X1 2204		5103
DEC.	CMAR		5603
RES 1	SIOR		6203
	D# 1001		9103
	RC 1004		
	RC 7174	<u>Le</u>	AD COTE
-	The Lond		
	RM 1004	RBJ-A82	Blue
	1005	-817	Black
	1104	-B20	Black
	1204	-B30	Black
	1304	- 833	Black
	1404	-840	Black
	1503	-B60	Black
	1504	-890	Black
	1604		· _
	4004	-B170	Biack

PARTS NO.	NAME OF PARTS	PARTS NO.	NAME OF PARTS
<u>Lea</u>	COIL	SET	SCREW
RBJ-C25 -C95 -D95 -G100 -M20 -M25 -M18 -R19 -R25 -R47 -R130 -G33 -W17 -W82 -W105 -Y20 -Y25	Brown Orange Green Purple Purple Purple Red Red Red Red Red White White White Yellow Yellow		PUK1.7x 2.5sN PUK1.7x 5 SN PUK1.7x 8 SO PUK1.7-236SO PUK1.7-314SO PUK1.7-406SO PUK1.7-516SO PUK2x1.8SO PUK2x2 SO PUK2x2.5SO PUK2x3 SO PUK2x3 SO PUK2x4.5SG PSK1.4x1.6SO PSK1.4x1.6SO
-Y72 -Y105	Yellow Yellow BE		PSK1.4x2 SO PSK1.4x2.5SO PSK1.7x1.8SO
THJ-B9 -BIO -BIS <u>SET</u>	Black Black Black SCREW		PSK1.7x2.2SO PSK1.7x2.5SO PSK1.7x2.5SB PSK1.7x3 SO PSK1.7x3.5SO PSK1.7x4 SB
	PUK1.4x 1.4S0 PUK1.4x 1.6S0 PUK1.4x 1.8S0 PUK1.4x 3 S0 PUK1.4-310S0 PUK1.4-311S0 PUK1.4-605S0 PUK1.4-605S0 PUK1.4-605S0 PUK1.4-609S0 PUK1.4-610S0		PSK2x2 S0 PSK2x2.2S0 PSK2x3.8S0 PSK2x3 S0 PSK2x3.5SE 3FUK1.4x1.8S0 3PUK1.4x3 S0 3PUK1.7x2.5S0 3PUK1.7x5 SN 3PUK1.7x5 SN 3PUK1.7x3 S0
	PUK1.7x 1.5S0 PUK1.7x 1.6S0 PUK1.7x 1.8S0 PUK1.7x 2 S0 PUK1.7x 2.2S0 PUK1.7x 2.5S0		E 1 B 1/16 B 2

CTS NO. NAME OF PARTS	PARTS NO. NAME OF PARTS	
SET SCREW	BLACK FINISH	
HK1.4-101BO	CA 90735 S BASE COVER	
HK1.4=102BO -	9403 R KNOB	
HR1.4-201SN	9404 R LEVER	
HK1.4-338BO	9405 R LEVER WASHER	
HK1.4-341BO	9408 R PINCH	
HK1.4-633SN	9410 R PINCH SCREW	
	941Z LEVER FASTENER	
	9413 FASTENER	
WASTER	9425 S LEVER STOPPER	
	9426 SR BUTTON	
NW1.4-334UO	9431 KT HOLDER	
NW1.4-43400	9432 K PINCH	
NW1.5-42500	9433 R LEVER WASHER	
NW1.8-230UO	9434 R LEVER WASHER	
NW1.8-325BO	9436 R LEVER WASHER	
NW2.1-240PO	9441 ST LEVER B	
WW8_6-213680	9471 M CAP	
	CE 1201 TOP COVER	
Į.	1202 BOTTOM PLATE	
	1203 FRONT CASTING	
Į.	1204 B COMPARTMENT LID	
	1205 SHUTTER DIAL	
	1206 SYNCHRO SOCKET	
	1207 BUTTON WASHER	
	1208 SW WASHER	
	1210 A DIAL	
	1211 RESET BUTTON	
	SET SCREW	
	PSK 2=3.5 SE	



GENERAL OUTLINE AND MECHANICAL FEATURES

GENERAL OUTLINE AND MECHANICAL FEATURES

GENERAL OUTLINES

HOUSE CORD: MDE

MODEL NAME: OM-2

2. MAIN SPECIFICATIONS

System: OLYMPUS OM System

Camera type: 35mm Single Lens Reflex with automatic exposure control electronic focal plane shutter.

Film format: 24mm x 36mm.

Lens mount: OLYMPUS OM Mount, bayonet type; rotation angle 70°, flange back 46mm.

Shutter: Focal plane shutter, automatic exposure control from several tens of seconds to 1/1,000 second (ASA 100, F1.2, at normal temperature and humidity). Manual exposure: B, 1-1/1,000 sec., ring mounted control.

Synch .: FP.X switch type contact, incorrect flash prevention.

Automatic exposure control: Aperture-preferred automatic exposure control electronic shutter type. TTL Direct Light Measuring System. center-weighted for bright. and averaging for dark conditions. Measuring range: ASA 100 F1.2 from several tens of seconds to F16, 1/1.000 seconds. (about EV-5.5 - EV 18) (at normal temperature and humidity). Light sensors: 2 SBC sensors. Large fine-exposure adjustment dial: ±2EV (within the ASA film speed range). Automatic flash exposure: Direct contacts for TTL Auto Flash.

Manual exposure: TTL type. Measuring system: Full aperture center-weighted metering. Measuring range: EV1.5 - EV17 (ASA 100 with F1.2 standard lens). Light sensors: # CdS sensors.

Zero-method with needle visible in viewfinder.

Film speed setting: ASA 12 - 1600, set by lifting and rotating film speed dial.

Auto/Manual selection: By switching lever.

Battery check: 3-stage battery check lamp (light emitting diode) indicates full voltage, depleted charge, and exhaustion of batteries. Shutter lock to limit drainage.

Power source: Two 1.5V silver oxide batteries (Eveready (or UCAR) S-76 or equivalents).

Viewfinder: Pentaprism type wide-vision finder.

Focusing screens: Wide selection of interchangeable screens. Standard type Focusing Screen 1-1 (microprism-matte type).

Finder view-field: 97% of actual picture field.

Apparent field view: Vertical 23°30', horizontal 35°.

Indicators in: 3-stage selector lever. (Auto: Shutter speed indicator. — Manual: exposure index. — Off: nothing).

Reflex mirror: Oversize, quick return type (without lock-up).

Film loading: OLYMPUS easy loading.

Manual film advance: Lever type with 150° angle for one long or several short strokes, pre-advance angle 30°, self cocking, double advance and double exposure prevention.

Motor drive: With Motor Drive 1 unit attached, single frame and continuous advance at speed of 5-frame per second (at exposures above 1/500 sec., with fresh batteries and at normal temperature and humidity).

Exposure counter: Progressive type with automatic reset.

Film rewind: Crank type, with rewind clutch setting, automatic return,

Self-timer: 4 - 12 second delay lever type with 180° maximum angle, stopped and reset after actuation.

Camera back: Removable hinge type, with memo holder.
Interchangeable with Recordata Back 1 and 250 Film Back 1.

Hot shoe socket: OLYMPUS accessory shoe (optional) attachable.

Dimensions and weights:

Body only: 136 x 83 x 50mm (5.35" x 3.27" x 1.97") 520g (18.3 oz) With F1.8 lens: 136 x 83 x 81mm (5.35" x 3.27" x 3.19") 690g (24.3 oz) With F1.4 lens: 136 x 83 x 86mm (5.35" x 3.27" x 3.39") 750g (26.5 oz) With F1.2 lens: 136 x 83 x 97mm (5.35" x 3.27" x 3.82") 830g (29.3 oz)

CAUTION

AUTO: At "AUTO", the shutter speed varies automatically in response to the f/stop preselected and lighting conditions regardless of the shutter dial setting, except "B".

To release the shutter lock: When the shutter is locked due to improper battery condition, the lock can be released by resetting the shutter dial. (Align the reset marks, # and arrow, while depressing the reset button. At this point, the shutter dial is set to "B".)

When trouble occured: If the shutter is locked, the battery shall be depleted quickly. Therefore, release the lock immediately.

4. MECHANICAL FEATURES

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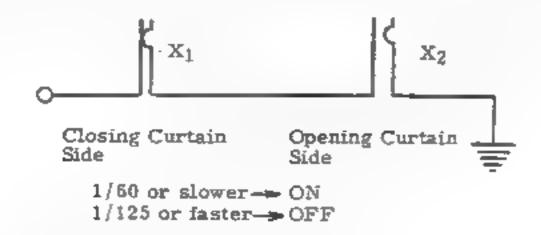
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2	Shutter Lock and Lock Release
3	Automatic Synchronization
4	Battery Checker (3-level indication)
5	Light Measuring Method
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7	Shutter Circuit Diagram
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[1] WX Mechanism (Prevention of flashing at 1/125 sec. and faster)

The mechanism, in which the X contact is not turned on for the shutter speeds faster than 1/125 of a second, is called "WX mechanism".

The principle lies in the structure comprising two contact pieces; X_2 coupling with opening curtain and X_1 coupling with closing curtain, wired in series each other. When the shutter is charged, the contact piece X_2 is OFF, while X_1 is ON.

- 1/60 sec. or slower ----- When the opening curtain fully run, X2 is turned ON; at this point, the closing curtain doesn't start for a certain time (X1 remains ON). Both contacts are thus ON at the same time.
- 1/125 sec. or faster ---- The closing curtain runs before X₂ is turned on. (X₁ is OFF.) Both contacts are thus OFF at the same time.



[2] Shutter Lock and Lock Release

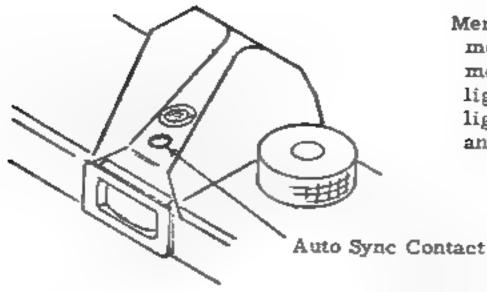
When the shutter cannot operate due to battery voltage drop and other battery troubles, the shutter lock is activated and the mirror is locked up midway. To return the mirror to the original position, turn the shutter dial to "B". Thereafter, load fresh batteries correctly. (See CAUTION at the top of this chapter.)

[3] Automatic Synchronization

The shutter of OM-2 is of an electric control type for both auto and manual. Whenever the closing curtain has run. MG (magnet) is turned from ON to OFF.

Since the MG takes a coil form, back electromotive force (caused by self-induction) is generated for the change in the current.

This back electromotive force is utilized to control special electronic flash unit. Both the OM-2 and the special electronic flash unit are provided with an exclusive synch contact in addition to the conventional direct contact.



Merit: The flash light is measured based on the TTL method to control amounts of light. This assures real time light measurement and offers an ideal type of automatic flash.

[4] Battery Checker (3-level indication)

When the switching lever is pressed to the "CHECK" position (the lever is automatically returned by releasing the finger), the red light-emitting diode provides three indications of ON. BLINK and OFF depending upon battery voltage.

QN Normal (battery voltage 2.75V or higher)

BLINK Better to replace (2.75V ± 0.04V or lower)

(Still provides about 20 rolls of 36-frame film.)

OFF Replace (2.45V ± 0.04V or lower)

(5) Light Measuring Method

The light measurement is performed through two CdSs in the eyepiece section and two SBCs (Silicon Blue Cell) in the mirror box, making a total of four light sensors.

The CdSs in the eyepiece section are connected only to the exposure meter visible in the viewfinder, and plays a role of controlling the pointer of the exposure meter.

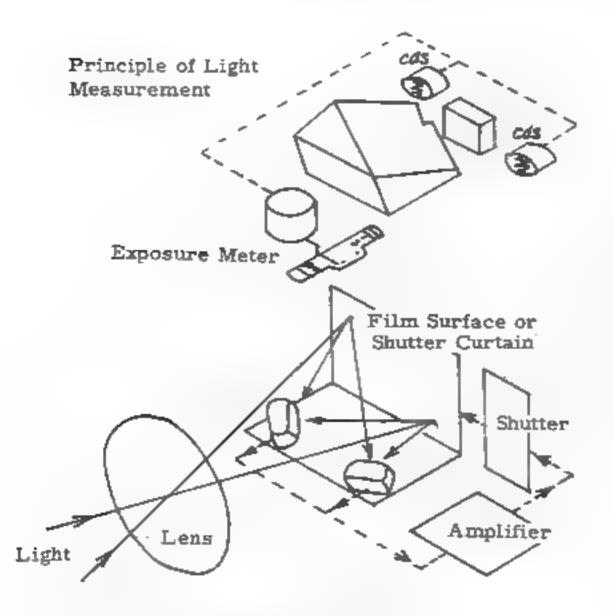
The SBCs in the mirror box are used to measure the light at AUTO to control the shutter speed.

The SBCs face the film plane to measure the reflected light from the film surface (from shutter curtain at high shutter speeds).

Since the SBCs measure substantially the reflected light from the opening curtain at high shutter speeds, the shutter curtain is printed with a "random pattern" designed to achieve correct exposures. (Take care not to leave finger marks, nor smudge the curtain.)

The main switch of the SBCs is turned on when the shutter button is depressed and the mirror is being flipped up. The SBC's quick reaction speed (µ sec order) amply assures the control of shutter speed which is about 1/1000 sec. at the highest.

Therefore, unlike other single-lens reflex cameras with electronic shutter, the conventional memory device is needless; hence, correct exposures can always be obtained even when the subject or scene varies its brightness at the moment of shutter opening.



Reflectance variations of various types of film is approximately ±0.3EV.

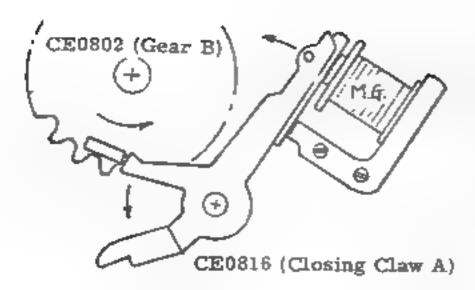
From among a number of patterns, the random pattern was selected which was found to yield best exposures.

[6] Shutter Speed Adjusting Mechanism

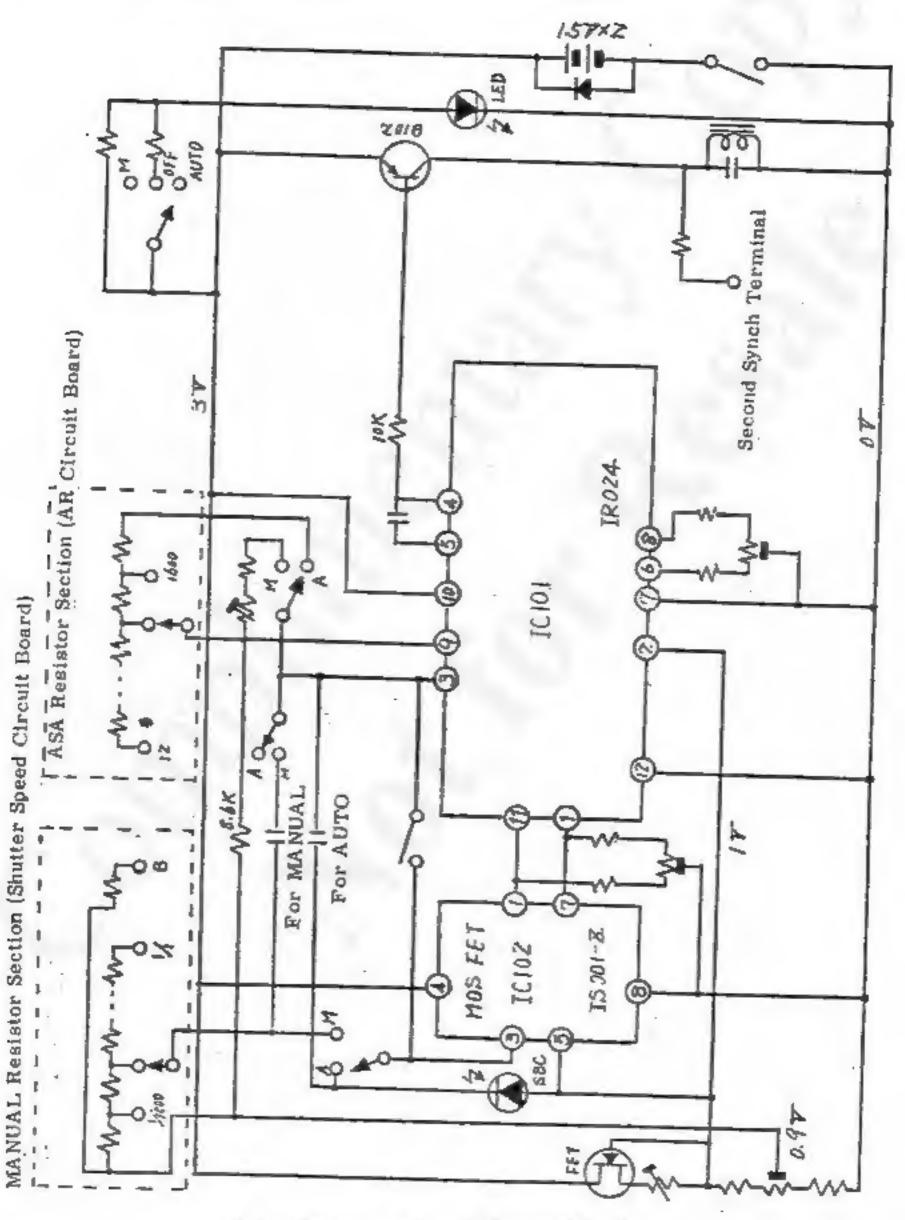
The shutter speed adjustment is done with a mechanical governor in OM-1, but is done with an electric governor (MG τ Amplifier) in OM-2. The operation principle of the opening and closing curtains is as follow.

Opening Curtain ... Winding and running are performed with CA8547 (Gear A). same as in OM-1.

Closing Curtain ... The curtain is wound with CE0802 (Gear B), the gear is engaged by MG attractive force and the shutter speed is adjusted by amplifier. The OM-1 governor is replaced by MG and amplifier; others are same as in OM-1.



When MG is turned off, CE0816 (Closing Claw A) is disengaged from CE0802 (Gear B), CE0802 rotates in the arrow direction due to the tension of the closing curtain and the closing curtain starts running.



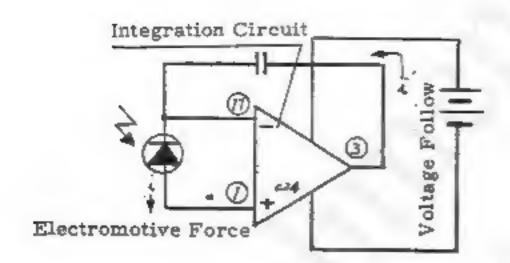
- [8] Description of Each Component
- (1) IR 024 (IC 101)

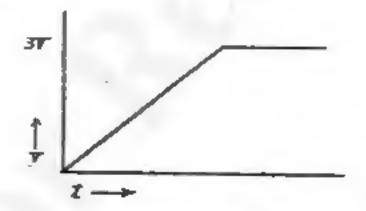
This IC includes four circuits: a) integration circuit, b) comparator, c) sub circuit and d) limiter.

Integration Circuit



This is also called an operational circuit. It makes the condenser to charge at a rate such that the relation between charging quantity and time can be expressed in a linear formula (straight line if expressed graphically). (i = i'; if i is constant. i' will also be constant.) When connected as in the illustration below, it acts to flow the current to the output pin (3) so that potential difference between two input pins. (1) and (1) shall always becomes zero.





Relation between V and t of condenser is expressed by a straight line because of integration circuit.

Comparator

This is connected next to the integration circuit. The comparator acts to decide whether the electric signal transmitted has a potential greater than the rated voltage, and switches its output from 0V to 3V if the potential is greater than the rated voltage. The terminals for input electric signal consist of pins (9) and (2) . while the output terminal of (4) . (As the potential difference of 3V is generated between the base (B) and emitter (E) of the switch transistor Q102 at a OV output. MG is turned on. When the output is switched to 3V. MG is turned off because potential difference between B and E becomes zero.)

See Shutter Circuit Diagram in the preceding page.

c) Sub circuit

When battery power is depleted, the limiter described below operates to turn off the MG and the shutter is locked. However, if this condition were left as it is, the battery would recover and MG would repeat turning on and off. To prevent this, the sub circuit operates to shunt large current.

d) Limiter

When battery voltage drops below the rated value, the limiter operates to eliminate the potential difference between base and emitter to prevent turning on of MG.

(2). MOS FET (Metal-Oxide-Semiconductor Field-Effect-Transistor)

This is connected between SBC and IC 024. Insulation resistance on the input side of the integration circuit of IC 024 cannot be made due to structual reason. Thus, extremely weak currents like SBC's (approx. 10⁻¹¹ A) cannot be dealt with accurately. MOS FET has every high insulation resistance on its input interface, so that it can accurately catch the extremely weak currents and amplifies and sends them to the integration circuit.

* Correctly, input impedance MOS FET is destroyed with static electricity of 100V, so must be grounded.

(3) FET



This functions to make flow of electric current constant even when the battery voltage fluctuates, and makes the voltage constant. It is provided with 3 pins: source (S), drain (D) and gate (G). When the voltage between S and G is changed, the current flowing from D to S is changed.

(4) SBC (Silicon Blue Cell)



This is a photo-sensitive element, which generates electromotive force when receiving light.

Features

- Very quick response speed (10⁻⁵ 10⁻⁶ sec.) enables real time and unremitting light measurement.
- Dark current is weak and accuracy on the low luminance level is high.
- Electromotive current caused by incident light changes linearly (% = 1).

therefore easy to compute.

4. Blue filter applied lowers the infrared-ray rate to below 14%.

(5) Condenser

This plays an important role of deciding the exposure time. The potential between its electrodes is 0V before charging, and is increased in proportion to charging. When the charging current is large (i.e. when the subject or scene is bright), the voltage increase is rapid. Due to the integration circuit, the relation between the charging voltage increase and time is linear. Two condensers are provided for the following reason. In the AUTO mode, the current to be handled is weak because of SBC, so the condenser capacity is small. Whereas, in the MANUAL mode, the current value is designed large for safety purposes and the condenser capacity is made larger.

Condenser for AUTO 470 pF

Condenser for MANUAL 22000 pF

In addition to the above, two condensers are used; one for the prevention of comparator oscillation and the other for voltage adjustment of second synchro circuit.

(6) LED (Light-Emitting Diode)



When the shutter is released in a dark place, the LED (positioned underneath SBC) illuminates the SBC to prevent the shutter from being left opened.



Connect (+) side to the anode (A) and (-) side to the cathode (K). respectively.

When the AUTO/MANUAL switching lever is set to the OFF position. the LED is lit brightly and the shutter can be released at about 1/15 sec. and faster even at OFF.

(7) Diode



This is connected in the shortest distance between the batteries to prevent current flow when batteries are loaded upside down.



(8) Transistor



The transistor used in the M circuit board is for turning on and off of the magnet.

